

Remarks

As a preliminary matter, it is noted that the Examiner has checked box #10 on the Office Action Summary indicating that the drawings filed on September 10, 2003 are objected to. However, in the Office Action, the Examiner did not indicate any reason for the Examiner's objection to the drawings. It is assumed that the Examiner's checking of box #10 at this time was in error. In any event, the undersigned recognizes that formal drawings will be required prior to issuance of any allowable claims and, upon notice of allowable claims, intends to submit formal drawings. If this is not acceptable, and the Examiner did intend that formal drawings must be submitted at this time, the undersigned welcomes a call from the Examiner explaining this position and will prepare formal drawings upon receipt of such call or if instructed to do so in any subsequent Office Action.

The undersigned's Remarks are preceded by related comments of the Examiner, presented in small bold-faced type.

Allowable Subject Matter

Claims 14 - 19 are allowed.

The Examiner is thanked for the indication of allowable subject matter.

Claims 5 and 8 - 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 1 has been amended to incorporate the subject matter of claim 13 and to further clarify that the plated via holes connect signal connections on the substrate layers. In accordance

with the Examiner's conclusion that the subject matter of claim 13 is allowable if rewritten in independent form, it is respectfully submitted that claim 1 is now in allowable form.

Claims 2 – 12 depend, directly or indirectly, on claim 1 and these claims are allowable for at least the same reasons as for claim 1.

New Claim 22 incorporates the subject matter of claim 8 and its intervening claims (claims 2 and 1). In accordance with the Examiner's conclusion that the subject matter of claim 8 is allowable if rewritten in independent form, it is respectfully submitted that claim 21 is now in allowable form.

New Claim 23 incorporates the subject matter of claim 9 and, in accordance with the Examiner's conclusion that the subject matter of claim 9 is allowable if rewritten in independent form, it is respectfully submitted that claim 22 is now in allowable form.

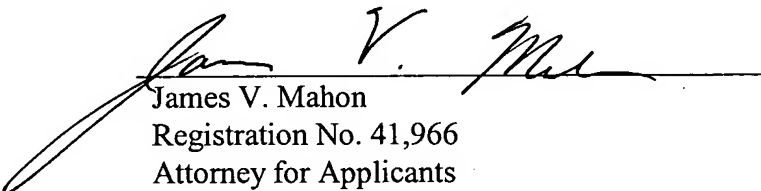
Conclusions

Claim 1 has been amended, claim 13 has been canceled, and claims 22-23 have been added. Claims 1-12, 14-19, 22-23 are now pending and believed to be in condition for allowance. Applicant respectfully requests that all pending claims be allowed.

Please apply any credits or excess charges to our deposit account number 50-0521.

Respectfully submitted,

Date: Nov 21, 2005


James V. Mahon
Registration No. 41,966
Attorney for Applicants

MAILING ADDRESS
Customer No. 27383